RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

--- Date Processed by STIC:

Source:

RECEIVED

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE CH CENTER 1600 2900 APPLICANT, WITH A NOTICE TO COMPLY or.

TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT

MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221 Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual - ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry directly to (EFFECTIVE 12/01/03): U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

RECEIVED NOV 2 4 2003 TECH CENTER 1600/2900

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/328, 877C
ATTN: NEW RULES CASES	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9 Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 00/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



Does Not Comply
Corrected Diskette Needed

SEE Add hard pages @ back

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/328,877C

DATE: 11/18/2003

TIME: 13:18:14

RECEIVED

Input Set : A:\6142_revised.seq.txt

Output Set: N:\CRF4\11182003\I328877C.raw

NOV 2^4 2003

ERRORED SEQUENCES

Number of Sequences in Sequence Listing 1s 32 not 27 given in <1607

3605 <211> LENGTH: 23 3607 <212> TYPE: DNA

3609 <213> ORGANISM: Artificial Sequence

3613 <220> FEATURE:

3013 \220/ FEATURE.

3603 <210> SEO ID NO:

3615 <223> OTHER INFORMATION: Description of Artificial Sequence:

3617 Oligonucleotide primer

3621 <400> SEQUENCE: 32

3623 ctcagacaggtcaggacatttgg

E--> 3645 54

remove extra material at the end

of file.

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/18/2003 PATENT APPLICATION: US/09/328,877C TIME: 13:18:15

Input Set : A:\6142_revised.seq.txt
Output Set: N:\CRF4\11182003\1328877C.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/328,877C

DATE: 11/18/2003 TIME: 13:18:15

Input Set : A:\6142_revised.seq.txt

Output Set: N:\CRF4\11182003\I328877C.raw

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/328,877C

DATE: 11/18/2003 TIME: 13:18:15

Input Set : A:\6142_revised.seq.txt

Output Set: N:\CRF4\11182003\I328877C.raw

L:23 M:270 C: Current Application Number differs, Replaced Current Application Number

L:25 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:143 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:1

L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:2460

M:341 Repeated in SeqNo=1

L:289 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:2

L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:2460

M:341 Repeated in SeqNo=2

L:3645 M:254 E: No. of Bases conflict, this line has no nucleotides.

L:29 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (27) Counted (32)

Ad thousal page 3

```
<210> 1
```

<211> 3550

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (2485)

Numeric Identifier 22237 15 mandatory for 'n' and Xaa, SEE ITEM #9 on

ERROR Summary SHEET,

<220>

<221> unsure

<222> (3372)

<400> 1

Oddetund page 2

<210> 2

<211> 3571

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (2506)

See additional page 1.

<220>

<221> unsure

<222> (3393)

<400> 2